



DISMOUNTED SYSTEMS

SPARTN-E

Sniper Precision Acquisition Rifle Thermal Night Sight-Elevator

Clip-on visibility in day or night and under degraded conditions

The Sniper Precision Acquisition Rifle Thermal Night Sight (SPARTN), provides night/day and degraded battlefield or weather condition visibility for the sniper by easily clipping the device in front of the existing day scope. The clip-on configuration allows the operator to maintain the existing day scope zero.

The SPARTN employs a completely passive, microcooled mid-wave infrared technology to provide a high-quality, large format, 640 x 480 resolution image, usable with day scope magnifications from 5x to > 25x. The proven range detect performance will match or exceed current Sniper Weapons Systems capabilities. The SPARTN has been ruggedized for use with most Sniper Weapon Systems. It is ideal for extended

range target detection and identification, observation of environmental indicators, and is capable of tracking bullet trajectory making it the preferred Night Vision Device (NVD) for the Sniper or Reconnaissance role. The hot-swap battery capability and/or external power feature allows persistent over watch on extended missions. The rear facing focus knob and controls are optimized for sniper conops.

OUR TECHNOLOGY

Leonardo DRS is a leader in the design and manufacture of Thermal Weapon Sights, focusing on producing high quality, reliable, cutting edge products to give the dismounted warfighter overmatch capability on the battlefield. Our Family of Thermal Weapon Sights are currently satisfying mission requirements around the globe.

FEATURES

The rear facing focus knob and controls are optimized for sniper conops. The wired stick remote control replicates INOD keypad functionality and enables one-handed gloved operation. Super elevation adjust is incorporated into the mount to accommodate targeting at various ranges while ensuring target visualization.

FOCAL PLANE ARRAY

Component	Description
Detector	HgCdTe
Array Size	640 x 480
Detector Pitch	12 μ m
Spectral Response	3.4 – 4.8 μ m

VIDEO

Frame Rate	60 Hz
Format	RS – 170
Gain/Level Control	AGC/Bias Control Local Area Processing (LAP)
Image Polarity	White Hot/Black Hot

ELECTRICAL

Power Source	Six (6) 3.0 VDC Lithium Batteries
External Power	12 – 32 VDC
Hot Swappable	Yes
Battery Operating Time	>5 hr over typical mission profile
Start Up Time	\approx 3 mins at ambient, may vary with environmental extremes

MECHANICAL

Dimensions (L x W x H)	9.693 x 3.50 x 4.14 in 24.46 x 8.89 x 10.52 cm
Weight	< 1.587 kg
Mounting	Mil-Std 1913 Rail
Super Elevation	Three elevation positions: 0°, 0.375°, 0.75°

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COMMUNICATION INTERFACE

Component	Description
Serial Interface	RS – 232

ENVIRONMENTAL

Operating Temperature	-20°C to +50°C
Storage Temperature	-20°C to +60°C
Immersible	3 ft for 2 hrs 0.91 m for 2 hrs
Altitude	30,000 ft (9,144 m)

PERFORMANCE

Focus Range	20 m to infinity
Field of View (HFOV)	2.48°
Compass Accuracy	\pm 10° to magnetic North (\pm 2° typical)
Audible Noise	<40 dB (1 meter)
Operating Modes	On, Standby, Remote

ADDITIONAL COMPONENTS

Remote Control	5-button press with 1-button standby
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