



DISMOUNTED SYSTEMS

FWS-S Family of Weapon Sights-Sniper

Clip-on Visibility in Day or Night and Under Degraded Conditions

The FWS-S (Family of Weapon Sights-Sniper) thermal weapon sight provides night/day and degraded battlefield or weather condition visibility for operators by easily clipping the device in front of the existing direct view optic. The clip-on configuration allows the operator to maintain the existing direct view optic zero.

The FWS-S employs a completely passive, micro-cooled mid-wave infrared technology to provide a high-quality, large format, 640 x 480 resolution image, usable with direct view optic magnifications from 5x to > 25x. The proven range detect performance will match or exceed current

Sniper Weapons Systems capabilities. The INOD has been ruggedized for use with all SOF and U.S. Army 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.

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 FWS-S 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

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
Serial Communication Interface	RS – 232

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	< 3.5 lbs
Mounting	Mil-Std 1913 Rail
Super Elevation	3 elevation positions 0°, 0.74°, 1.49°

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ENVIRONMENTAL

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

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
Image Polarity	White Hot/Black Hot

ADDITIONAL COMPONENTS

Remote Control	5 Button press with 1 button standby
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