



DISMOUNTED SYSTEMS

FWS-I

Family of Weapon Sights-Individual Weapon sights increase survivability

The Family of Weapon Sights-Individual is an advanced Clip-On infrared weapon sight, based on Leonardo DRS' field-proven thermal sensor technology. The FWS-I combines rugged, lightweight, modular construction with superior thermal imaging technology to give today's Warfighter the capability to maintain uncompromising performance in day or night and in smoke or fog, significantly increasing survivability and decisive operations on the battlefield. THE Rapid Target Acquisition (RTA) CAPABILITY enables rapid offensive targeting during Close Quarters Battle (CQB), IN all battlefield conditions, BY reducing target acquisition and engagement timelines, without the use of active lasers.

At the core of the FWS-I lies decades of experience in the uncooled infrared (IR) weapon systems field. The sight employs a proprietary high sensitivity vanadium oxide (VOx) focal plane array (FPA). The IR FPA requires no visible light to operate and will not shut down or create glare when exposed

to direct light. The FWS-I operates silently and emits minimal heat and radio frequency (RF) energy, ideal for undetected reconnaissance.

Complete with 1x to 3x magnification, the modular FWS-I night vision system can be configured for use as a stand-alone sight or in an In-Line capability when used with a Day View Optic (DVO) on a wide variety of qualified weapons. It is uniquely designed as a cost-effective, high-performance, and portable solution.

The Clip-On functionality eliminates the need for re-bore sighting as the DVO accuracy is undisturbed. Also, the FWS-I design allows the sight to be used as a stand-alone thermal weapon sight without a DVO or as a hand-held thermal imager.



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.

ACCESSORIES

- Soft Case
- Lens Cover
- Lens Cleaning Kit
- Operator's Manual
- Quick Reference Card
- Clip-on Weapon Shroud
- Stand Alone Eyecup
- Weapon Mount Adapter
- Tethered Remote
- Riser

FOCAL PLANE ARRAY

<i>Component</i>	<i>Description</i>
Human Recognition	Greater than 950 m
Wide FOV (WFOV)	18° horizontal x 13.5° vertical
Narrow FOV (NFOV)	6° horizontal x 4.5° vertical
System Magnification (WFOV x NFOV)	1X to 3X

PHYSICAL CHARACTERISTICS

Dimensions (L x W x H)	129 x 80 x 82 cm 5 x 3.22 x 3.15 in
Weight, with batteries	525 g, 1.16 lbs
Weapon Platforms	M4, M16A4, AT4
Mounting	Picatinny MIL-STD-1913, NATO / STANAG

INTERFACES

Power Requirements	Three L91 AA Lithium Batteries
Video Output	USB Digital Video Out
Detector	640 x 480 uncooled VOx
Infrared Band	7 to 14 µm (LWIR)
Detector Pitch	17 µm

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OPERATIONAL

<i>Component</i>	<i>Description</i>
Operating Temperature	-40°C to +49°C
Storage Temperature	-46° to +71°C
Moisture Resistance	Immersible to 1 m fo water
Display Color	Monochrome Black/White
Time to Operate	<6 sec from power on
Image Polarity	White Hot / Black Hot
Maintenance	Only external cleaning is required



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