FWS-I
FAMILY OF WEAPON SIGHTS - INDIVIDUAL

WEAPON SIGHTS INCREASE SURVIVABILITY – WEAPON MOUNTED OR HANDHELD

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 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.

FWS-I Stand-alone (hand-held) with tethered remote

LEONARDO DRS

FAMILY OF WEAPON SIGHTS - INDIVIDUAL (FWS-I)

FOCAL PLANE ARRAY

COMPONENT	DESCRIPTION
Human Recognition	greater than 950 meters
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

MECHANICAL

Dimensions (L x W x H)	129 x 80 x 82 cm 5 x 3.22 x 3.15 inches
Weight (with Batteries)	525 grams 1.16 pounds

WEAPON

Weapon Platforms	M4, M16A4, AT4
Mounting	Picatinny MIL-STD-1913, NATO / STANAG

INTERFACES / TECHNOLOGY

COMPONENT	DESCRIPTION
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)
Standard 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 • RTA Battery Pack

OPERATIONAL

Operating Temperature	-40°C to +49°C
Storage Temperature	-46°C to +71°C
Moisture Resistance	Immersible to 1 meter of water
Display Color	Monochrome Black/White
Time to Operate	<6 seconds from power on
Image Polarity	White Hot / Black Hot
Maintenance	Only external cleaning is required

FWS-I on an 5.56 M4 AR utilizing it in a stand-alone configuration

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