

IWS INDIVIDUAL WEAPON SIGHTS



COMPACT THERMAL SIGHTS FOR DECISIVE MANEUVERS

The Individual Weapon Sights (IWS) are an advanced set of clip-on infrared weapon sights, based on Leonardo DRS' field-proven 17 μm thermal sensor technology. The IWS 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.

At the core of the IWS 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 IWS operates silently and emits minimal heat and radio frequency (RF) energy, ideal for undetected reconnaissance.

Available in two configurations; Standard (IWS) or Long-Range (IWS-LR) for advanced missions, the IWS is constructed to function as a night vision system when mounted in front of a day vision optic (DVO) sight

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 IWS design allows the sights to be used as a stand-alone TWS without a DVO and as a hand-held thermal imager.



INDIVIDUAL WEAPON SIGHTS (IWS)



PERFORMANCE

COMPONENT	STANDARD CONFIGURATION (IWS)	LONG-RANGE CONFIGURATION (IWS-LR)
Human Recognition	1,500 meters	2,500 meters
Wide FOV (WFOV)	18° azimuth x 13.5° elevation	9.5° azimuth x 7.2° elevation
Narrow FOV (NFOV)	9° azimuth x 6.75° elevation	4.75° azimuth x 3.6° elevation
Electronic Zoom	1X and 2X	0.5X, 1X and 2X

MECHANICAL

Dimensions (L x W x H)	129 x 70 x 80 mm	190 x 70 x 86 mm
Weight		
Clip-On (with Batteries and Lens Cover)	543 grams	845 grams
Stand-Alone (with Batteries, Lens Cover, and Eyecup)	575 grams	877 grams

INTERFACES

Detector	640 x 480 Uncooled VOx, 17 µm	640 x 480 Uncooled VOx, 17 µm
Infrared Band	8 to 12 µm (LWIR)	8 to 12 µm (LWIR)
Display (B & W)	640 x 480	1280 x 1024

OPERATIONAL

COMPONENT	DESCRIPTION
Operating Temperature	-40°C to +49°C
Storage Temperature	-46°C to +71°C
Moisture Resistance	Immersible to 1 meter of water
Vibration	Withstands vehicle transportation
Mechanical Shock	Withstands weapon fire shock
Time to Operate	<6 seconds from power on
Image Polarity	White Hot / Black Hot
Maintenance	Only external cleaning is required
Connectivity	Wireless configurable

WEAPON COMPATIBILITY

Weapon Platforms	M2, M4, M16, M60, M110, M136, M141, M240, M249, MK19
Mounting	Picatinny MIL-STD-1913, NATO / STANAG

TECHNOLOGY / ACCESSORIES

COMPONENT	DESCRIPTION	
Power Requirements	Three 1.5V AA Lithium batteries	
Video Output	USB Digital Video Out	
Display Color	Black and white	
Standard Accessories	<ul style="list-style-type: none"> • Soft Case • Stand-Alone Eyecup • Lens Cover • Operator's Manual 	
	<ul style="list-style-type: none"> • Quick Reference Card • Clip-on Weapon Shroud • Weapon Mount Adapter • Tethered Remote • Riser (IWS-LR only) 	
	Optional Accessories	<ul style="list-style-type: none"> • Spare Battery Clip Assembly • LRF Compatibility

Electro-Optical Infrared Systems

100 N Babcock St,
Melbourne, FL 32935
T +1 888 377 7782
marketing @drs.com

The information in this data sheet is to the best of our knowledge, accurate as of the date of issue. Leonardo DRS reserves the right to change this information without notice. || Nothing herein shall be deemed to create any warranty, expressed or implied. || Export of the commodities described herein is strictly prohibited without a valid export license issued by the U.S. Department of State, Directorate of Defense Trade Controls, prescribed in the International Traffic in Arms Regulations (ITAR), Title 22, Code of Federal Regulation, Parts 120-130.
Copyright © Leonardo DRS 2019 All Rights Reserved.