



DISMOUNTED SYSTEMS

IWS

Individual Weapon Sight

Compact thermal sight for advanced 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. It also has a built in UWB wireless transmitter that allow the IWS to link to windows based tablets, android based tablets and phones, wireless equipped goggles and helmet mounted displays. IWS run time is 11 hours on three AA batteries allowing for longer mission and surveillance times without a battery change.



FEATURES

- Clip-on and stand alone thermal capability
- cHDR™ Automatic Gain Control with adjustable detail and edge enhancement
- UWB Wireless for real time viewing
- Wireless connectivity for Windows based tablets, Android based tablets and smart phones, BNVD goggles, UWB based personal soldier COMM systems
- Integrated shutter and non-uniformity calibration
- Eight integrated ballistic weapon reticles boresighted to better than 1 MOA
- Less than one minute of angle clip on image shift
- Field boresight to allow operator to zero any impact shift
- Designed for use with ACOG, CCO, Low and High Power Variable Optics and HWS sights
- Field maintainable
- Wired weapon mountable remote



PERFORMANCE

Component	Description
Human Detection	>1,500 m
Wide FOV (WFOV)	18.5° azimuth x 13.9° elevation
Medium FOV (MFOV)	9.25° azimuth x 6.95° elevation
Narrow FOV (NFOV)	6.16° azimuth x 4.63° elevation
Clip On Magnification	Unity magnification
Stand Alone Magnification	1X, 2X, 3X
Focus Range	5 m to infinity

PHYSICAL CHARACTERISTICS

Dimension (L x W x H)	129 x 70 x 80 mm
Clip-On Weight (includes batteries and lens cover)	543 g
Stand Alone Weight (includes batteries, lens cover and eye piece)	575 g
Power Requirements	3 AA Lithium Batteries
Battery Life	11 hrs at 25°C (77°F)
Weapon Platforms	M2, M4, M16, M110, M136, M141, M240, M249, MK19
Mounting	Picatinny MIL-STD-1913, NATO/STANAG

VIDEO

Display Resolution	640 x 480
Display Color	Black and White
Frame Rate	60 Hz
Video Output	USB Digital Video Out, and UWB wireless



OPERATIONAL

Component	Description
Operating Temperature	-40°C to +50°C
Storage Temperature	-46°C to +71°C
Moisture Resistance	Immersible to 1 m of water
Vibration	Withstands vehicle transportation
Mechanical Shock	Withstands weapon fire shock
Time to Operate	<6 secs from power on
Image Polarity	White Hot/Black Hot
Maintenance	Only external cleaning required

FOCAL PLANE ARRAY

Detector	640 x 480 Uncooled VOx,
Detector Pitch	17 µm
Infrared Band	8 to 12 µm (LWIR)



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
- Stand-alone eyecup
- Lens Cover
- Riser
- Operator's Manual
- Quick reference card
- Clip-on weapon shrouds for low powered and high powered DVOs
- Weapon mount adapter
- Tethered Remote



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