



## DISMOUNTED SYSTEMS

# IWS-LR

## Individual Weapon Sight-Long Range

Compact thermal sight for advanced maneuvers

The Individual Weapon Sight-Long Range (IWS-LR), an extended range handheld or weapon mounted thermal sight. The system's thermal imaging capability allows for long-wave infrared observation and target identification under adverse conditions, including light rain, smoke, light snow and low-light to total darkness. The IWS-LR utilizes a leading-edge 640 x 480, 17  $\mu\text{m}$  uncooled Vanadium Oxide microbolometer. IWS-LR image is enhanced by compact High Dynamic Range (cHDR) Automatic Gain Control with adjustable detail and edge enhancement. This feature allows the operator to further customize the image to the conditions of the scene being viewed.

The IWS-LR utilizes a 1280x1024 high resolution display in order to allow for integration with higher magnification DVO for DMR and Sniper applications. The IWS-LR has a built in UWB wireless transmitter that allow the IWS-LR to link to windows based tablets, android based tablets and phones, wireless equipped goggles and helmet mounted displays. IWS-LR is laser range finder compatible, including a disturbed reticle in stand alone modes. The IWS-LR run time is eight 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 to external devices
- Integrated shutter and non uniformity calibration
- Eight integrated ballistic weapon reticles boresight to better than 1 MOA
- Less than one minutes of angle clip on image shift
- LRF compatible with disturbed reicle
- Field boresight to allow operator to zero any impact shift
- Designed for use with ACOG, CCO, Low and Hight Power Variable Optics and HWS sights
- Field maintainable
- Wired weapon mountable remote



*Various Configurations*

## PERFORMANCE

Component	Description
Human Detection	2,500 m
Wide FOV (WFOV)	9.25° azimuth x 6.94° elevation
Medium FOV (MFOV)	4.63° azimuth x 3.47° elevation
Narrow FOV (NFOV)	3.10° azimuth x 2.31° elevation
Magnification	1X, 2X, 3X digital zoom
Focus Range	5 m to infinity

## PHYSICAL CHARACTERISTICS

Dimension (L x W x H)	244 x 88.9 x 105.2 mm
Clip-On Weight (includes batteries and lens cover)	776 g
Stand Alone Weight (includes batteries, lens cover, and eyecup)	807 g
Power Requirements	3 AA Lithium batteries
Battery Life	8 hrs at 25°C (77°F)
Weapon Platforms	M2, M4, M16, M110, M107, M240, M249, MK19
Mounting	Picatinny MIL-STD-1913, NATO/STANAG

## VIDEO

Display Resolution	1280 x 1024
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 +49°C
Storage Temperature	-46°C to +71°C
Moisture Resistance	Immersible to 1 m of water
Vibration	Withstands vehicle transportation
Mechanical Shock	Withstands weapo 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
- Operator's Manual
- Quick reference card
- Clip-on weapon shroud
- Weapon mount adapter
- Tethered Remote



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