

Light Thermal Weapon Sight (LTWS)



LTWS



The **Light Thermal Weapon Sight (LTWS)** is the lightest qualified thermal sight available for today's warfighter.

Benefits

- ▶ Requires no visible light for operations - can be used 24 hours a day
- ▶ Can be a weapon-mounted sight or a hand-held imager
- ▶ Powered by AA batteries
- ▶ Includes eyecup-activated stand-by mode to extend battery and mission life

Proven Technology

Weighing only three pounds, the Light Thermal Weapon Sight (LTWS) is one of the lightest thermal sights available to today's warfighter. The LTWS is based on the combat-proven technology that drives Raytheon's successfully fielded line of thermal imaging products. The LTWS has completed the U.S. Army's initial operational test and evaluation.

The compact design and light weight of the LTWS make it ideal for use as both a hand-held thermal imager and a rifle-mounted sight. Because it emits neither light nor RF energy, its use cannot be detected. It can be used round-the-clock, since ambient light is not required for its operation.

The LTWS features a 2-to-1 electronic zoom, a liquid crystal display (LCD) and an eyecup-activated stand-by mode for power conservation. The system is powered by AA batteries.



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Specifications	LTWS
Range	Detect/recognize human: 550 m
FOV	15 deg az x 11.3 deg el
Dimensions	
Length	32.4 cm (12.8 in)
Width	8.3 cm (3.3 in)
Height	11.2 cm (4.4 in)
Weight	Less than 1.4 kg (3.0 lb) with batteries
Operational	
Reliability	High reliability, no scanner or cooling motor to wear out
Operating temperature	-37°C to +49°C
Storage temperature	-46°C to +71°C
Mechanical shock	Withstands weapon fire shock
Time to operation	Less than 60 seconds
Image polarity	White hot/black hot
Maintenance	Cleaning only
Mission operation life	5 hours on commercial AA lithium batteries
Interfaces	
Power requirements	Commercial AA batteries
Mounting	Picatinny MIL-STD 1913 or NATO/STANAG Qualified
Weapons	M16, M4, SA-80
Video output	EIA-RS-170, NTSC VCR
Technology	
Detector	320 x 240 staring BST FPA (76,800 pixels) 8 - 12 µm IR spectrum
Cooling	Uncooled ferroelectric
Standard equipment with each system	Hard plastic storage/transportation case, soft carry case, telescope lens cover, operator manual, lens cleaning kit, AA battery cassette, weapon mount adapter
Optional accessories	Video out cable, auxiliary power cable
National Stock Number	5855-01-464-3150



LTWS with Battery Cassette

Network Centric Systems

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