

THERMIS

THERMAL

Family of Thermal Clip-On Sights

Three variants to meet mission requirements:

**Medium (MR), Long (LR)
and Extra Long (ELR) Range**

No need to remove day sight

Eye relief, shooting position and user's
muscle memory remain the same

Proven uncooled IR sensor technology
for superior image quality

Intuitive user control

Built-in digital compass & inclinometer



SENSORS' THERMIS family of uncooled Thermal Clip-On Sights (TCS), was developed to provide soldiers with an unrivaled day/night advantage in detecting, observing and engaging hostile targets, independent of darkness and common obscurants used for visual concealment. The clip-on sights are designed for use in tandem with medium or long range day sights to provide targeting at night, while maintaining the day optic's ballistic zeroing.

The THERMIS family of clip-on sights incorporates the latest IR sensor, electronics and optical technologies to deliver world leading performance and reliability, providing the capability to acquire and engage targets in low and zero light. All variants generate superior IR imagery, ensuring target recognition at the maximum possible range. Optimally-sized rear optics, retain day optics eye box, ensuring user comfort.

Tailored engine design is coupled with intuitive user interface to deliver maximum range performance and enhanced user experience. Optimized control of the image processing and region-of-interest settings result in maximum range performance. Local contrast enhancement delivers superior image quality.

The built-in digital compass and inclinometer provide range estimation and target orientation. The THERMIS MR clip-on is suitable for either short-range rifles (i.e. M16, M4, AK-47 etc.) or medium machine guns (i.e. M16, M4, AK-47, FN Minimi, MG3 etc.), while the LR / ELR clip-on models for the squad leader's weapon, Sniper Rifles and Heavy Machine guns (i.e. M2 HB, MK19, L129 A1 etc.).

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Technical Specifications

	MEDIUM RANGE	LONG RANGE	EXTRA LONG RANGE
USE			
Recommended rifle	M4, M16, M136	M249, M240B	M24, M107, M2 HB, MK19, L129 A1
IR SENSOR			
Spectral response	8-14 μm	8-14 μm	8-14 μm
Sensor size	640 x 480 px	640 x 480 px	640 x 480 px
Pitch	17 μm	17 μm	12 μm
NETD	≤ 50 mK (≤ 40 mK optional)	≤ 50 mK (≤ 40 mK optional)	≤ 50 mK (≤ 40 mK optional)
OPTICS			
Objective focal length	50 mm	75 mm	83 mm
f / number	f/1.1	f/1.1	f/1.0
Resolution	1.4 cy/mrad	2.2 cy/mrad	3.4 cy/mrad
Field of View (HFOV) - wide	12.4°	8.3°	5.3°
Field of View (HFOV) - narrow	(x2, x4 digital zoom)		
Magnification	x 1.0		
Coatings	Hard Carbon on exposed surfaces and High Efficiency on internal surfaces		
COLLIMATING OPTICS			
Pupil diameter	30 mm	45 mm	28 mm
POWER			
Source	4 AA Batteries		
Operating time	> 10 hours		
Start-Up	< 3 s		
VIDEO			
Frame rate	60 Hz		
Video out	Analog RS-170		
Polarity	White Hot / Black Hot		
Power conservation	30 Hz power save mode		
PHYSICAL CHARACTERISTICS			
Weight	< 1 kg	< 1.1 kg	< 1.2 kg
ENVIRONMENTAL CHARACTERISTICS			
Operating temperature	-32 °C to +55 °C		
Storage temperature	-46 °C to +71 °C		
Qualification testing	MIL-STD 810G & MIL-STD 461E & IP67		
WEAPON INTERFACE			
Standard mount	MIL-STD-1913 / STANAG 4694 picatinny rail or weaver rail Selectable &		
Reticles / Day Sights	adjustable to boresight / Trijicon (ACOG 6x48) , ELCAN		

