

TWS13

Thermal Weapon Sight



ABOUT

N-Vision Optics' newly redesigned TWS13 dedicated thermal weapon sight line-up provides operators with a significant advantage in detecting, observing, and engaging targets in all conditions, day or night. Combining a rugged and lightweight hi-tech composite material housing with advanced thermal imaging technology, the TWS13 series of weapon sights generate superior IR images and ensures target acquisition at maximum possible ranges.

Designed for use with CQB, medium, and long range weapon systems, the TWS13 series is available in 640X512 or 320X280 17 μ m configurations and 640X480 12 μ m configurations. TWS13 series of thermal weapon sights also feature either 35mm or 50mm germanium objective lenses.

The TWS13 includes four reticle patterns custom tailored for individual weapons with corresponding zero, color, brightness and contrast. Polarity is displayed in either white hot or black hot options to best suit the tactical scenario. Standard 2x and 4x digital zoom enables clear identification of targets before engaging them. The TWS13 allows the user to photograph targets, save images to internal storage and later download them to a computer via USB cable.







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SYSTEM SPECIFICATIONS

Model Designator	TWS13A	TWS13B	TWS13C	TWS13D
				
Detector	Uncooled vanadium oxide (VOx) microbolometer			
Spectral Response	7.5 - 13.5 μm			
Detector Resolution	336 x 256		640 x 512	
Detector Pitch	17 μm			
Frame Rate	30/60 Hz		30 Hz	
Standard Mount	MIL-STD-1913 Picatinny or Weaver			
Reticles	Four reticles selectable and adjustable to boresight			
Digital Zoom	2X, 4X			
Polarity Control	Black hot/white hot			
Analog Video Display	NTSC and PAL			
Eyepiece Assembly				
Display Type	Color OLED			
Display Resolution	800 x 600			
Diopter Adjustment	- 6 to +2 diopters			
Power				
Power Source	4 CR123 batteries or external 12V DC			
Power Conversion	Standby mode			
Range Performance (typical, meters) for Man Size Target				
Detection	1140	1500	1140	1500
Recognition	280	380	280	380
Identification	142	190	142	190
Environmental				
Operating Temperature	-40°C to +50°C			
Non-Operating Temperature	-40°C to +71°C			
Physical Characteristics (without batteries and spacer)				
Size (L x W x H), mm	185 x 82 x 80	215 x 82 x 80	185 x 82 x 80	215 x 82 x 80
Weight, g	662.5	797.5	662.5	797.5
Image Capture				
Storage Type	Internal. Non-removable			
Image Access	USB			
Storage Capacity	400 images.			

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