

TWS13

Thermal Weapon Sight



ABOUT

N-Vision Optics' thermal weapon sight TWS13 provides soldiers with a significant advantage in detecting, observing and engaging targets in all conditions, day or night. Combining a rugged and lightweight housing made out of hi-tech plastic composite material, with advanced thermal imaging technology, the TWS13 generates superior IR images and ensures target acquisition at the maximum possible range.

The TWS13 is easy to operate with ergonomic and clearly marked digital controls. The weapon sight is available in a variety of models with 336 x 256 or 640 x 512 VOx thermal detectors and a large array of optics to precisely match the operator's requirements and weapons.

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 For- mats	Standard 640 x 480 (NTSC). Factory option 640 x 512 (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/best, meters) for Man Size Target				
Detection	820/930	1500/1700	820/930	1500/1700
Recognition	210/230	380/430	210/230	380/430
Identification	104/116	190/215	104/116	190/215
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. Extended memory versions are available.			

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