

Thermal Weapon Sights (TWS)

AN/PAS-13C(V)

BAE Systems' light, medium and heavy thermal weapon sights (TWS) were developed in partnership with the U.S. Army, PEO Soldier, to provide soldiers with a tremendous day/night advantage in detecting, observing and engaging hostile targets, independent of darkness and common obscurants used for visual concealment.

Incorporating our uncooled MicroIR[®] infrared (IR) sensor technology, all three variants generate superior IR imagery, ensuring target recognition at the maximum possible range for increased lethality.

Each TWS variant has successfully completed a rigorous U.S. Army qualification testing program, resulting in a robust and battle-proven design.

BAE Systems ...committed to providing high-performance and reliable thermal weapon sights.

Three variants to meet mission requirements

Proven uncooled MicroIR[®] sensor technology for superior image quality.

Fully qualified by the U.S. Army.

Proven, producible design - more than 25,000 sights delivered to the U.S. Army.

Under contract for more than 65,000 sights through 2010.

High-volume production . . . more than 1,500 sights per month.



Why BAE Systems?

Because we have a history of dependable performance.

BAE Systems' thermal weapon sights, in production since March 2006, are based on a proven, producible design that has passed a rigorous qualification testing program administered by the U.S. Army. The result is three robust TWS variants that provide dependable performance during the most demanding missions.

Because we offer superior image quality.

Based on our uncooled MicroIR[®] sensor technology, the light, medium, and heavy thermal weapon sights generate unprecedented image quality allowing the user to detect and recognize potential hostile targets at the maximum distance, independent of darkness, adverse weather and common obscurants. The exceptional sensitivity and blur free imagery inherent in all variants enable the user to see first, act decisively, and ultimately achieve mission success.



Because we deliver.

BAE Systems understands the importance of being a low-risk, dependable supplier and is committed to meeting all contract delivery schedules. To this end, we have established dual sources of supply for all critical components including dual BAE Systems' foundries for supply of the uncooled focal plane arrays.

With more than 25,000 thermal weapon sights delivered at rates exceeding 1,500 sights per month, BAE Systems has a demonstrated history of meeting customer delivery requirements.

Because we provide superior logistical support and training.

Integrated logistical support programs that meet the customer's needs can be defined. A complete, and cost effective suite of test, measurement and diagnostic equipment has been developed and can be provided in support of field support depots.

BAE Systems offers comprehensive training programs covering all aspects of the TWS operation and field-level maintenance. Programs typically consist of classroom lecture and hands-on experience.

Technical Specifications



VARIANT	LIGHT	MEDIUM	HEAVY
Model designation	AN/PAS-13C(V)1	AN/PAS-13C(V)2	AN/PAS-13C(V)3
National stock No. (NSN)	5855-01-523-7707	5855-01-523-7713	5855-01-523-7715
IR Sensor	Uncooled vanadium oxide (VOx) microbolometer		
Detector	Uncooled vanadium oxide (VOx) microbolometer		
Spectral response	7.5-14µm		
Resolution/array format	320x240	640x480	640x480
Range performance			
Recognition range (70%Pr – moving man)	680m / 2,230ft	1,100m / 3,608ft	2,200m / 7,216ft
Horizontal field of view (HFOV) - wide	17.3 deg.	19.5 deg.	9.6 deg.
Horizontal field of view (HFOV) - narrow	8.6 deg. (2x e-zoom)	6.5 deg. (3x e-zoom)	3.2 deg. (3x e-zoom)
Weapon interface	MIL-STD-1913 picatinny rail or weaver rail		
Standard mount	MIL-STD-1913 picatinny rail or weaver rail		
Reticles	Selectable and Adjustable to Boresight		
Physical characteristics			
Size (L x W x H)	28.5 x 7.9 x 12.5cm 11.2 x 3.1 x 4.9in	33.8 x 8.1 x 13.7cm 13.3 x 3.2 x 5.4in	40.4 x 9.9 x 14.5cm 15.9 x 3.9 x 5.7in
Weight (w/ batteries)	0.8kg / 1.95lbs	1.3kg / 2.9lbs	1.8kg / 3.7lbs
Environmental characteristics			
Operating temperature	-46°C to +49°C / -51°F to +120°F		
Storage temperature	-46°C to +71°C / -51°F to +160°F		
Qualification testing	Fully qualified		
Power			
Source	(4) – AA batteries	(6) – AA Batteries	(6) – AA batteries
Operating time	10hrs w/ one change of batteries		
Power conservation	Standby mode		
Video			
Frame rate	60Hz	30Hz	30Hz
Video out	Analog RS-170		
Eyepiece assembly			
Display resolution	640x480		
Individual eye correction	+2/-6 diopter adjustment		
Note: Specifications subject to change without notice.			

Export of these products is regulated by the U.S. Department of State in accordance with the guidance of “International Traffic in Arms Regulation (ITAR)” per Title 22, Code of Federal Regulations, Parts 120-130.

BAE SYSTEMS – A QUALIFIED AND PROVEN SUPPLIER OF THERMAL WEAPON SIGHTS TO THE WARFIGHTER.

Qualified, proven, producible, and reliable designs.

Positioned to meet urgent operational delivery requirements.

Demonstrated history of system support.

A dependable and trusted partner.

"Our performance . . . it begins and ends here. To protect those who protect us, it is our honor and our duty to provide the very best in technology and tools to the men and women of our armed services and our allies deployed around the world defending and fighting for our freedom".

Walt Havenstein
President and CEO, BAE Systems, Inc.



Courtesy of U.S. Army

We Protect Those Who Protect Us[®]

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