



ITT

U.S. Customers Only

Enhanced Night Vision Goggle (ENVG), AN/PSQ-20, F6023

ITT Night Vision is the world's leading developer, producer, and supplier of Generation 3 image intensifier technology for U.S. and allied military forces, as well as the homeland security market. In addition to providing the AN/PVS-14, AN/AVS-6(V)3 and other legacy goggles, ITT is delivering the first fused goggle, the ENVG. ITT is committed to providing vision enhancement solutions for the future digital battlefield by developing advanced, digitally fused night vision systems.



ENVG Description

System design has been proven through U.S. Army Operational Testing. This system combines an image intensified (I^2) tube and infrared (IR) micro-bolometer into a compact monocular. The monocular is approximately the same size as the AN/PVS-14. A separate battery pack provides power for helmet-mounted or hand-held use. The ENVG will mount on a ACH helmet and will provide: flip-up, tilt, fore/aft adjustment; left/right eye use; and quick disconnect from the helmet.

Soldier Benefits

ENVG is the first night vision goggle in production to provide fusion (via optical overlay) of I^2 and IR imagery. It will give the following benefits to the soldier:

- Greater situational awareness due to improved threat detection under most battlefield environments; compatible with traditional weapon system ranges
- Expanded viewing capability from highlight conditions to total darkness (no light) and through battlefield obscurants. Increases capability for urban operations
- Improved wearing comfort due to better weight balance resulting in less fatigue
- Easy-to-use controls similar to proven AN/PVS-14
- Non-exit pupil forming eyepiece allows the soldier to maintain full field of view even as helmet shifts during vigorous physical movements

Engineered for life

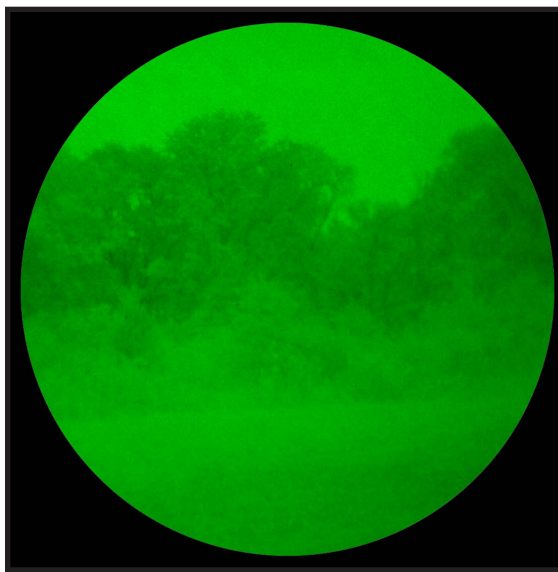
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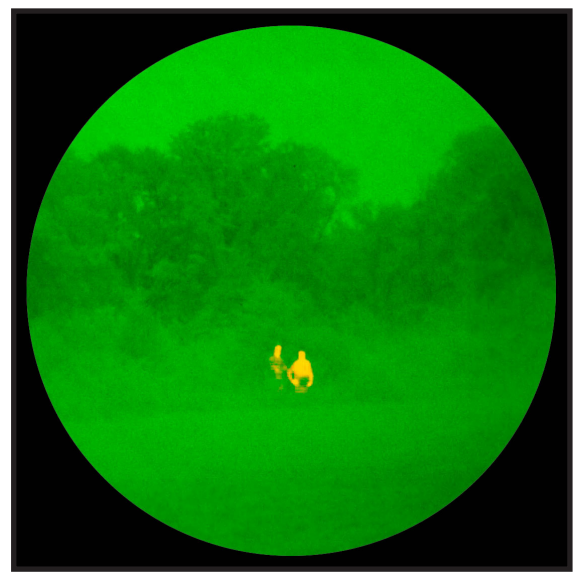


Key Specifications

- Less than 2 lbs (907 gm) including helmet mount and batteries
- Over 7.5 hours of fused operation life on 4 AA lithium batteries
- High performance 16-mm image tube
- 320 X 240 microbolometer
- Field of View
 - $I^2 \geq 38^\circ$
 - IR $\geq 28^\circ$ Diagonal
- I^2 Resolution ($1E^{-3}$ fl), 1.14 cy/mr



ENVG with I^2



ENVG with I^2 and IR



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Specifications subject to change without notice.
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