

Helmet Mounted Night Vision Devices (HMNVD)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

Enhances the Warfighter's visual ability and situational awareness while successfully engaging and executing operations day or night, whether in adverse weather or visually obscured battlefield conditions.

DESCRIPTION

Helmet Mounted Night Vision Devices (HMNVD) support the tactical level of war, enabling the individual Soldier to see, understand, and act first and permitting superior tactical mobility and decisive engagement during limited visibility conditions. These devices include:

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

The AN/PSQ-20 provides dismounted Brigade Combat Team Warfighters the capability to observe and maneuver in all weather conditions through obscurants

during limited visibility, and under all lighting conditions while enabling rapid detection and engagement with rifle-mounted aiming lasers. The ENVG combines the visual detail in low light conditions that is provided by image intensification with the thermal sensor's ability to see through fog, dust, and smoke that obscure vision. This thermal capability makes the ENVG, unlike earlier night vision devices, useful during the day as well as at night. The ENVG allows Soldiers to rapidly detect and engage targets because it permits use of existing rifle-mounted aiming lights.

AN/PVS-14 Monocular Night Vision Device (MNVD)

The AN/PVS-14 provides the Warfighter with the ability to perform night time operations, while driving, walking, performing first aid, reading maps, and conducting maintenance. The AN/PVS-14 MNVD is a helmet-mounted passive device that amplifies ambient light and very near infrared (IR) energy to enable night operations. The system is designed for use in conjunction with rifle-mounted aiming lights. The AN/PVS-14 has a helmet mount assembly compatible with the Advanced Combat Helmet for

hands-free operation. The AN/PVS-14 can also be mounted to the M16 Rifle/M4 Carbine receiver rail.

AN/AVS-6 Aviator's Night Vision Imaging System (ANVIS)

The AN/AVS-6 provides Army aircraft the capability to support missions of target acquisition, target engagement, troop lift, and logistical support during periods of reduced visibility at night, by enhancing the tactical advantage and capability of the aircrew. The AN/AVS-6 provides the capability for Army aircraft to conduct missions at night and during periods of reduced visibility, by amplifying ambient light from sources such as the moon, stars, and sky glow, making the viewed scene clearly visible to the operator. Additionally, the ANVIS enables the aircrew to maneuver the aircraft during low-level, nap-of-the-earth (NOE) flights, providing the capability to gather combat intelligence and to acquire and successfully engage targets, thereby supporting normal and wartime missions.

SYSTEM INTERDEPENDENCIES

None

PROGRAM STATUS

- **FY11:** Fielded to units supporting Operation Enduring Freedom and Operation New Dawn
- **FY11:** Production and fielding
- **FY11:** Awarded two 3-year Indefinite Delivery/Indefinite Quantity contracts for AN/PVS-14 and related spares for sustainment, other Services, and Foreign Military Sales
- **FY11:** Performed Production Qualification Testing of new AN/PSQ-20 systems from multiple vendors

PROGRAM STATUS

- **FY12:** Production and fielding in accordance with Headquarters Department of the Army G8 priorities
- **FY12:** Complete AN/PSQ-20 qualification testing, reach a Full-Rate Production Decision, and issue a production award(s)
- **FY12:** Award new production contract(s) for AN/AVS-6(v)3
- **4QFY12:** Final Army AN/PVS-14 delivery

ACQUISITION PHASE

Technology Development

Engineering and Manufacturing Development

Production and Deployment

Operations and Support

Helmet Mounted Night Vision Devices (HMNVD)

FOREIGN MILITARY SALES

Support approved cases for AN/PVS-7, AN/PVS-14, and AN/AVS-6

CONTRACTORS

AN/PVS-14:

ITT (Roanoke, VA)
L-3 Communications Electro-Optic Systems (Tempe, AZ; Garland, TX; Londonderry, NH)

AN/AVS-6(V)3:

ITT (Roanoke, VA)

AN/PSQ-20:

ITT Geospatial Systems (Roanoke, VA), L-3 Insight (Londonderry, NH), DRS (Parsippany, NJ), Raytheon (Dallas, TX)

