

# Monocular Night Vision Device (MNVD), Gen 3, F6015 Series

For more than 50 years, ITT Exelis has provided the military with premier vision-enhancing solutions. As the world's leading manufacturer of Generation (Gen) 3 image intensifier technology, Exelis continues to work hand-in-hand with customers to expand night vision and vision-enhancing capabilities, technologies, and resources.

Exelis also provides technical support, service, training, and maintenance for our products to maximize customer benefits and usability.

Exelis now offers the F6015 Series (AN/PVS-14) Monocular Night Vision Device (MNVD) in a light-weight single-battery configuration. The single-battery configuration delivers the same features and versatility as the earlier dual-battery F6015 in a lighter weight monocular, providing greater mobility and comfort under normal operational conditions. The single-battery F6015 is being offered as a replacement for the dual-battery configuration.

## FEATURES AND BENEFITS

- High resolution, high gain, and very high photoresponse in visible and near infrared
- Multifunctional: Hand-held as a monocular, head-mounted or helmet-mounted as a single-eye goggle, or weapon-mounted as a night scope
- Variable gain control for enhanced performance in altering light conditions.
- Light weight: 355 grams
- Uses many components and ancillary accessories common to the AN/PVS-7
- Uses universally available AA batteries

## STANDARD ACCESSORIES

- Medium and Thick Brow Pads – Changeable pads
- Head/Helmet Mount Adapter – Attaches F6015 to head strap or helmet mount. Allows the user to position the monocular unit in front of either eye
- Eye Cup – Prevents the emission of stray light or facial reflections
- Demist Shield – Snaps onto the eyepiece to prevent condensation on the optics
- Sacrificial Window – Shields the objective lens from air-borne sand, dust, or anything that may scratch the lens.
- Carrying Case – Provides convenient storage



- Shoulder Strap – Attaches to the F6015 carrying case for easy portability
- Lens Paper – Used to lightly clean the objective and eyepiece glass surfaces

## OPTIONAL ACCESSORIES

- Helmet Mount Assembly
- Head Mount Assembly
- Small-Arms Mounting Adapter
- 3X or 5X Magnifier Lens
- Tether Cord
- Eye Guard
- Shipping/Storage Case

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## SPECIFICATIONS

On-Axis Resolution (max.) at optimum light level	1.3 cycles/milliradian
System Magnification	1 X $\pm 0.03$
System Distortion	Less than 3%
Range Focus	25 cm to infinity
Diopter Focus	+2 to -6 diopters
Exit Pupil and Eye Relief	14 mm on-axis exit pupil at 25-mm eye relief
Field of View	40 $\pm 2^\circ$
System Brightness Gain	Adjustable from 25 to more than 3,000
Operating Temperature	-51°C to +49°C
Storage Temperature	-51°C to +85°C
Weight of Monocular with eyecup, lens cap, neck cord and battery	355 grams

## DESCRIPTION

Exelis's F6015 MNVD is designed for use by the individual soldier in a variety of ground-based night operations. It features the superior performance of the Gen 3 F9815 image intensifier tube with a variable gain control to achieve an optimum balance in the images seen by both eyes. The dark-adapted unaided eye provides situational awareness and vision of close-range objects, while the night vision aided eye provides long-range vision of potential threats and targets. This visual flexibility enables the soldier to move quietly and effectively under all night conditions.

For weapon firing, the F6015 can be mounted on a MIL-STD-1913 weapon rail behind a standard collimated dot sight, such as the EOTech Model 550. This sight provides a central aim point while retaining the F6015's 40° field of view. When fitted with the 3X magnifier, the unit fits similarly behind the collimated dot sight. This configuration provides the soldier with a 3X night scope, significantly increasing the range of the F6015 for weapon firing. Alternatively, the F6015 can be used with the same sight but remain head or helmet mounted for increased situational awareness and mobility. Thus, the F6015 provides increased versatility without the need to carry multiple types of specialized equipment.

MIL-STD-1913 weapon rails allow use of the F6015 with most types of assault rifles. When ordering the F6015, please specify the exact type of weapon and/or type of helmet that will be used.

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