



# NIGHT VISION DEVICE PRODUCT



The NVB-31 Binocular Night Vision Device (BNVD) is a rugged, compact, self-contained, lightweight & self-contained dual tube goggle with high performance Gen 3rd unfiltered white or green Phosphor image intensifiers technology for greater target detection and recognition. Low-light and nighttime maneuvers appear more natural in black and white, with added contrast detail in shapes and shadows providing the operator more visual information for assessment and acquisition. White phosphor offer various shades of intensity between black and white (over black and green), resulting in better contrast and depth perception.

Ergonomic, low-profile binocular design provides operator with superior situational awareness and improved depth perception over single-tube systems. Working directly with input from SOF Operators, the BNVD was designed to increase system resolution, significantly reduce head borne-weight, improve system center of gravity, provide additional operational utility, and improve overall situational awareness as compared to currently fielded dual-tube goggles. The housing is engineered to be more rugged than legacy NVB-15 system.

The BNVD's twin-tube design offers greater reliability in the field against failure or damage versus a single-tube night vision devices. Manual system gain adjustment allows operator to control image brightness to match the environment. The BNVD also can be used as a monocular by rotating either left or right channel, up and out of the way.

## **Pollux NVB-31 series NIGHT VISION BINOCULARS**



## **KEY FEATURES**

- High performance Gen III Image Intensification Tubes with Auto-Gated Technology to prevent damage in high-light environments
- High performance white phosphor image with enhanced degree of detail in overall contrast and range of shades
- Provides the operator more visual information for accurate assessment and acquisition
- Manual system gain and focus adjustments for custom image quality optimization
- Lightweight ergonomic design reduces head-borne weight and decreases neck strain
- Snap-on diopter lenses optimize operator preference for visual acuity
- Rotating binocular design allows low profile against helmet when in stowed position and ability to use as a single monocular
- Quick release helmet-mount design
- Auto OFF when stowed; resumes power when deployed
- Red LED in left and right monocular indicates when 10 minutes or more of battery life remains
- Replaceable tube assemblies
- Meet MIL-STD-810 or IP67 regulation
- Multi-coated lenses; water, dust, fog and scratch resistant lenses

# SPECIFICATIONS

Dimensions	11 CM(L) x 11 CM(W) x 8.7 CM(H)	Objective Focus	45 cm ±3 cm to infinity
Weight	< 450g (w/ Battery)	Eyepiece Diopter	-0.5 ± 0.1 (factory setting) , adjustable from +2.0 to -2.5
Finish	Matte Black, Corrosion Resistant (customized color is acceptable)	Waterproof	20M for 2 Hours
Power	One (1) AA Lithium Battery	Magnification	1X
Optional power	Lower profile battery power pack ( LPPP)	Optional Magnification	3X Magnifier Lens or customized
Battery Life	≥16 hrs. avg. at 25 °C on (1) AA Lithium battery ≥ 50 hrs. avg. at 25 °C on (4) AA Lithium batteries with optional 4-cell battery pack(LPPP)		
Image intensifier	Gen 3, filmless type tube		
Phosphor color	NVB-31 green , NVB-31A/E white color		
FOM	available from 1600~2400 ( NVB-31E can reach FOM 2400 )		
Field of view	40°± 2° deg. (horizontal & vertical)		



Pollux NVM-14 is a rugged and lightweight night vision monocular which is the current military issue night vision monocular and used by armed forces and law enforcement . This proven night vision goggle is now available with improved white phosphor tube technology for greater target detection and recognition. Low-light and nighttime maneuvers appear more natural in black and white, with added contrast detail in shapes and shadows providing the operator more visual information for assessment and acquisition. White phosphor offer various shades of intensity between black and white (over black and green), resulting in better contrast and depth perception.

NVM-14 can be used as a hand-held device, helmet mounted, or weapon-mounted for use with optic and laser sights. Variable gain (image brightness) control, and monocular configuration allow users to retain greater situational awareness. NVM-14 night vision devices are easy to maintain and service, with abundance of spare parts and accessories.

## **Pollux NVM-14 series NIGHT VISION MONOCULAR**



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## **KEY FEATURES**

- Hands-free or one-hand operation
- Automatic brightness control and bright light tube cut-off protection
- Particularly suited for operations where depth perception is critical for mission performance such as controlling land vehicles and boats at high speeds
- An active projected infrared LED provides short-range illumination allowing such activities as map reading ( Infrared illuminator )
- IR On & Low-battery waning indicator ( displayed within user's field of view in optic )
- Compact & Lightweight, Self-contained system operating on a single AA battery or CR123A
- Helmet-mounted and weapon mounted
- Manual/Variable Gain Control
- Meet MIL-STD-810 or IP67 regulation
- Multi-coated lenses; water, dust , fog and scratch resistant lenses

# SPECIFICATIONS

Dimensions	11.43cmL x 6.4cm W x 6.9cm H	FOM	available from 1600~2400
Weight	<350 g	Eye Relief	25mm
Finish	Matte Black, Corrosion Resistant ( customized color is acceptable )	Field of view	40°
Power	One (1) Standard AA Battery or CR123A	Objective lens	27mm± 0.5mm
Optional power	Lower profile battery power pack ( LPPP )	Diopter adjustment	+2 to -6
Battery Life	Approx. 50 Hours at Room Temp ( longer operating time with LPPP )	Focus Range	25cm to Infinity
Waterproof	20M for 1 hour	Temperature	-40° to 50°C (Operating), -50° to 70°C (Storage)
Generation	Gen3	Waterproof	20M for 1 hour
Image intensifier	Thin film or filmless type	Magnification	1X
Phosphor tube	green or white color	Optional Magnification	3X or 5X Magnifier Lens or customized





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