



# AN/PVS-31C – BNVD

## HIGH-PERFORMANCE WHITE PHOSPHOR

Binocular Night Vision Device (BNVD)

CHARACTERISTICS	
Dimensions	4.7 in. L x 4.2 in. W x 3.4 in. H
Weight	< 450 g (0.99 lb.) with AA Lithium battery installed (no accessories)
Battery Type	(1) AA Lithium
Battery Life	≥ 8 hrs. on (1) AA Lithium battery (avg. 16 hrs. at 25 °C (77 °F)) ≥ 24 hrs. on (4) AA Lithium batteries with optional 4-cell battery pack (avg. 50 hrs. at 25 °C (77 °F))
Field-Of-View	40° ± 2° deg. (circular)
Objective Focus	18 in. (45 cm ±3 cm) to infinity
Eyepiece Diopter	-0.5 ±0.1 (factory setting) adjustable from +2.0 to -2.0 with optional diopter lenses
Waterproof	66 ft. immersion for 2 hrs.
Image Intensification	U.S. manufactured High-Performance MX-11769 Gen III I <sup>2</sup> variable gain tubes
Screen Color	P-45 White Phosphor
Micro Channel Plate	Unfilmed
Power Supply	Auto-Gated
Center Resolution	72 lp/mm (min)
Signal-to-Noise	33.0 (min)
Figure of Merit (FOM)	2376 (min)
Image Quality	Military grade

### FEATURES

- > Manual system gain and focus adjustments for custom image quality optimization
- > Lightweight ergonomic design reduces head-borne weight and decreases neck strain
- > Optional diopter lenses optimize operator preference for visual acuity
- > Rotating binocular design allows low profile against helmet when in stowed position and the option to use as a single monocular
- > Works with currently fielded dovetail helmet mounts
- > Auto OFF when stowed; resumes power when deployed
- > LED indicators in left and right monocular alert the operator when the BNVD has no less than 10 minutes of battery life remaining
- > Replaceable/upgradeable I<sup>2</sup> tube assemblies



The L3Harris AN/PVS-31C BNVD is a compact, lightweight, Gen III high-performance white phosphor dual-tube goggle that is currently being used by the U.S. Air Force (USAF) for greater target detection and recognition in the toughest battlefield environments.

The BNVD's improved white phosphor tube technology allows low-light and nighttime maneuvers to 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 provides varying shades of intensity between black and white (over black and green), resulting in better contrast and depth perception.

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USAF NSN: 5855-01-663-5119

The device has an ergonomic low-profile design and offers superior Situational Awareness compared to a single tube goggle. 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 compared to currently fielded dual-tube goggles. The white phosphor BNVD is a follow-on to our legacy, battle-proven AN/PVS-15 and AN/PVS-31 standard green phosphor night vision goggles.



## BENEFITS

- > Includes Gen III Image Intensification Tubes (I<sup>2</sup>) with Auto-Gated Technology to prevent damage in high-light environments
- > The L3Harris Unfilmed Tubes provide more than twice the U.S. DoD requirement of 10,000 hours of performance thus maximizing confidence in completing operator missions effectively
- > 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

### AN/PVS-31C BNVD High-Performance White Phosphor

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