

BINOCULAR NIGHT VISION DEVICE - BNVD

Light Weight



The Carson Industries Light Weight Binocular Night Vision Device (BNVD) is a rugged, dual channel system that provides increased situational awareness to the warfighter or tactical law enforcement operator.

Carson Industries' Light Weight BNVD was designed to integrate the tactical requirements of the ground soldier with a more compact, balanced, and lightweight system.



KEY STRATEGIC FEATURES

- Extremely rugged, lightweight, and center mass balanced.
- Advanced aesthetic high-speed, low-drag system design.
- Dovetail interface to helmet mount Independent automatic shutdown to turn off each channel when it is moved out of the user's line of sight.
- Powered by a single, centrally-weighted AA battery.
- Dual function IR LED spot/flood illuminator assembly.
- Optimized light weight optics.

TECHNICAL SPECIFICATIONS

Spectral Response	Visible to 0.90 μm
(IR) Field of View	40° nominal
Magnification	Unity
Collimation	$\leq 1^\circ$ convergence
Interpupillary Adjustment	Independent, 51 to 76 mm total
Focus Range	9.8" to infinity
Objective Lens Focus Range	25 cm to infinity
Diopter Adjustment	+2 to -6 diopters
Battery Type	AA
Weight	450 grams

IMAGE INTENSIFIER OPTIONS

SPECIFICATION	M16H	M18H	M20H
Power Supply	Auto-gated	Auto-gated	Auto-gated
FOM (max)	1600	1800	2000
Resolution (min)	64 lp/mm	64 lp/mm	64 lp/mm
Signal to Noise Ratio	21.8—25.0	25.0—28.1	28.1—31.2
Photocathode Response (min)	1500	1800	2000
Max Spots Allowed in Each Zone	Zone	Zone	Zone
Spot Size (in)	1 2 3	1 2 3	1 2 3
>.012—.015	0 0 0	0 0 0	0 0 0
>.009—.012	0 0 0	0 0 0	0 0 0
>.006—.009	0 1 1	0 1 1	0 1 1
>.003—.006	0 2 2	0 2 2	0 2 2

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Specifications subject to change without notice.
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