

# BNVD-SG NIGHT VISION BINOCULAR



## SPECIFICATIONS

POWER SOURCE:	<b>(1) AA-SIZE BATTERY</b>
FOCUS RANGE:	<b>9.8" TO INFINITY</b>
OPERATION TIME:	<b>40+ HRS</b>
MAGNIFICATION:	<b>ONE POWER (1X)</b>
FIELD OF VIEW:	<b>40°</b>
DIOPTER ADJUSTMENT:	<b>-6 TO +2</b>
EYE RELIEF:	<b>25MM</b>
WEIGHT:	<b>19.6 OZ (555 G)</b>
DIMENSIONS:	<b>4.25" X 3.8" X 3.3"</b>

## FEATURES

- » **TEN YEAR WARRANTY**
- » **SUBMERSIBLE TO 66 FEET**
- » **40+ HOUR BATTERY LIFE WITH LITHIUM AA BATTERY**
- » **IR LED AND LOW BATTERY INDICATOR**
- » **SINGLE GAIN CONTROL KNOB**
- » **POWER OFF THE UNIT WHEN IN AN UPRIGHT POSITION AND POWER ON WHEN FLIPPED DOWN**

The **NVD-BNVD-SG Binocular** is a dual tube goggle with gain control. The BNVD-SG operates with a single gain control knob that controls both eyepieces simultaneously. Depending upon the amount of ambient light, the user can adjust the tube brightness (gain) lower to compensate for overly bright conditions or to increase the gain under extreme dark conditions. The BNVD-SG can be used as a monocular by choosing which side you want to use as your night vision eye and rotate the other side/arm of the binocular up and out of the way. This enhanced capability allows the user to rotate either monocular channel away from their eye while leaving the other monocular channel in place. This provides the operational flexibility to use the BNVD-SG as either a dual-eye or single-eye device. When used as a monocular, the user can operate the BNVD-SG with weapon mounted sighting equipment without sacrificing night-time situational awareness. Best of all with all the added features, the BNVD-SG is still substantially lighter than the AN/PVS-7 single tube goggle! This system complies with MIL-STD 810G, MIL-PRF-A3256342A(CR) and MIL-PREF-49427(CR).



### STANDARD ACCESSORIES

Soft Carry Case, Demist Shields, Sacrificial Windows, IR Spot/Flood Lens, Dovetail Mounting Adapter, Lens Tissue, (2) AA Batteries, Operator's Manual & Card, Neck Cord, Eyecups and Front Lens Caps.

### OPTIONAL ACCESSORIES

3X Magnifier, Compass Assembly, G24 Helmet Mount, Shuttered Eyeguards, Camera Adapter, and Battery pack for 50-60 hours of continual use for extended missions.

### BNVD-SG SYSTEM PERFORMANCE

MODEL NUMBER:	ULTRA	VG	YG	HP+	P+	P
POWER SUPPLY:	PINNACLE	PINNACLE	PINNACLE	PINNACLE	PINNACLE	PINNACLE
EBI:	2.5 MAX	2.5 MAX	2.5 MAX	2.5 MAX	2.5 MAX	2.5 MAX
PHOTOCATHODE RESPONSE:	2200 MIN.	2000 MIN.	1800 MIN.	2200 MIN.	1750 MIN.	1350 MIN.
SIGNAL TO NOISE RATIO:	25.0 MIN.	25.0 MIN.	25.0 MIN.	25.0 MIN.	20.0 MIN.	16.2 MIN.
RESOLUTION:	64 LP/MM MIN.	64 LP/MM MIN.	64 LP/MM MIN.	64 LP/MM MIN.	64 LP/MM MIN.	57 LP/MM MIN.

## HELMET MOUNT OPTIONS



The BNVD-SG can be used as a monocular by choosing which side you want to use as your night vision eye and rotate the other side/arm of the binocular up and out of the way. Each arm is tight enough so that the rotated arm will not fall down, but stay in its user adjusted position. To use as a binocular, rotate both sides down or when night vision is no longer needed, shut off and rotate both sides up and out of the way.

Never before could a binocular remain mounted when sighting with a rifle. The BNVD-SG does not need to be removed. Simply rotate one monocular of the BNVD-SG up and out of the way, so that the user can view through the dayscope & night vision weapon sight.

## BNVD-SG WITH WEAPON SIGHT



## BNVD-SG-3X MAGNIFIERS

The BNVD-SG can be used with optional 3X Afocal Magnifiers. Each 3X Magnifier can be either slide onto each objective lens or screw into the threads on the objective lenses. For extended use, it is recommended to screw them on to prevent the lenses from falling off. These magnifiers transform the BNVD-SG into a fixed 3X Magnification Binocular.



# WP & XLS IMAGE INTENSIFIERS

## WHITE PHOSPHOR

Night Vision Devices Products are available with Gen 3 White Phosphor Image Intensifiers manufactured by Exelis, now a part of Harris Corporation. Traditional image intensifier tubes use a P-43 phosphor screen output, resulting in the yellow-green that has become the signature view through most Gen 3 night vision systems. White Phosphor tubes use a P-45 phosphor screen, which yields an alternate coloration closer to black and white imagery. This change in color has been reported to enhance overall object recognition while providing contrast sensitivity equivalent to or better than traditional green phosphor image tubes. These White Phosphor tubes are available for system upgrades and can be Hand-Select for higher performance.

WHITE PHOSPHOR SYSTEM PERFORMANCE		
MODEL NUMBER:	WHP	WP
POWER SUPPLY:	PINNACLE	PINNACLE
EBI:	2.5 MAX	2.5 MAX
PHOTOCATHODE RESPONSE:	2200 MIN.	1350 MIN.
SIGNAL TO NOISE RATIO:	25.0 MIN.	16.2 MIN.
RESOLUTION:	64 LP/ MM MIN.	57 LP/ MM MIN.
SPOT ZONE:	1__2__3	1__2__3
....>.012 - .015	0__0__0	0__0__0
....>.009 - .012	0__0__0	0__0__1
....>.006 - .009	0__1__1	0__2__2
....>.003 - .006	0__2__2	0__2__3

## XLS

Night Vision Devices systems are now available for purchase with Gen 3 "XLS" Image Intensifiers manufactured by Exelis, now a part of Harris Corporation. These XLS tubes are available for customer applications within law enforcement and commercial applications. The Gen 3 photocathode is very sensitive to low-radiation levels of visible and, especially, near infrared light. The 6-micron channel spacing provides exceptional resolution and extended detection ranges in low-light conditions. The tube lifespan is 12,000+ hours. The XLS systems are available with or without a small spot in Zone 1.

XLS SYSTEM PERFORMANCE		
MODEL NUMBER:	XLS	
POWER SUPPLY:	NON GATED	
EBI:	2.5 MAX	
PHOTOCATHODE RESPONSE:	1350 MIN.	
SIGNAL TO NOISE RATIO:	16.2 MIN.	
RESOLUTION:	57 LP/ MM MIN.	
SPOT ZONE:	1__2__3	
....>.012 - .015	0__0__0	
....>.009 - .012	0__1__1	
....>.006 - .009	0__2__2	
....>.003 - .006	0__2__3	